

generating the recommendation comprising a 3-layer neural network followed by a mapping and normalization layer, the mapping and normalization layer outputting the recommendation as a set of probability distributions on the multiple values.

16. The system as recited in claim **15**, the neural network having been trained to minimize cross-entropy loss between the recommendation and a one-hot representation of a ground truth.

17. The system as recited in claim **14**, the recommendation being one of multiple potential values, the means for generating the recommendation comprising a 3-layer neural network outputting the recommendation as a single value output.

18. The system as recited in claim **17**, the neural network having been trained to minimize root mean square error between the recommendation and a ground truth value.

19. The system as recited in claim **14**, the past user interactions including values provided by the user for different items included in the digital experience.

20. The system as recited in claim **19**, the different items including movies and the values comprising movie ratings.

* * * * *